

CLAIMS

1. An immune modulator composition comprising 10^4 to 10^{10} killed whole cells of a bacterium selected from the genera *Rhodococcus*, *Gordonia*, *Dietzia*, *Tsukamurella* and *Nocardioides*, wherein said immune modulator composition in use
5 modifies a cellular immune response.
2. An immune modulator composition according to claim 1 wherein said composition comprises an antigen and an adjuvant, wherein said adjuvant comprises a whole cell of a bacterium from the genera *Rhodococcus*, *Gordonia*, *Dietzia*,
10 *Tsukamurella* and *Nocardioides*.
3. A pharmaceutical composition comprising 10^4 to 10^{10} killed whole cells of a bacterium selected from the genera *Rhodococcus*, *Gordonia*, *Dietzia*, *Tsukamurella* and *Nocardioides* and optionally a pharmaceutically acceptable carrier, diluent or
15 excipient, which pharmaceutical composition in use modifies a cellular immune response.
8. An immune modulator composition or a pharmaceutical composition according to any one of claims 1 to 3 for use as a medicament.
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9. An immune modulator composition or a pharmaceutical composition according to any one of claims 1 to 3 for use in or as a vaccine.
10. An immune modulator composition according to claim 9 wherein said
25 vaccine is a prophylactic vaccine or a therapeutic vaccine.
12. An immune modulator composition and/or a pharmaceutical composition according to any one of claims 1 to 3 wherein said composition further comprises an antigen or antigenic determinant.
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13. An immune modulator composition and/or a pharmaceutical composition according to claim 12 wherein said antigen or antigenic determinant is an antigen or antigenic determinant selected from one or more of a BCG (bacillus of Calmette and Guerin) vaccine, a diphtheria toxoid vaccine, a
5 diphtheria/tetanus/pertussis vaccine, a pertussis vaccine, the tetanus toxoid vaccine, the measles vaccine, the mumps vaccine, the rubella vaccine, the OPV (oral poliomyelitis vaccine) and *Mycobacterium vaccae*, or part thereof.
14. An immune modulator composition and/or pharmaceutical composition
10 according to claim 12 wherein said composition comprises two or more such antigens or antigenic determinants.
15. An immune modulator composition and/or pharmaceutical composition according to any one of claims 1-3 wherein said bacterium is selected from the genus
15 *Rhodococcus*.
16. An immune modulator composition and/or pharmaceutical composition according to claim 15 wherein said bacterium is one or more of the following
20 *Rhodococcus ruber*, *Rhodococcus rhodococcus*, *Rhodococcus rhodnii*, *Rhodococcus coprophilus*, *Rhodococcus opacus* and *Rhodococcus erythropolis*.
17. An immune modulator composition and/or pharmaceutical composition according to any one of claims 1-3 wherein said bacterium is killed.
- 25 18. A method for treating or preventing a condition in a subject comprising administering an effective amount of a pharmaceutical composition and/or immune modulator composition according to any one of claims 1-3 to a subject wherein said composition modulates a cellular immune response.

19. A method for immunizing a subject comprising administering a pharmaceutical composition and/or immune modulator composition according to any one of claim 1-3.

5 20. A method according to claim 18 wherein said pharmaceutical composition and/or an immune modulator composition is co-administered with an antigen or antigenic determinant.

21. A method according to claim 20 wherein the antigen or antigenic determinant
10 is an antigen or antigenic determinant selected from one or more of a BCG (bacillus of Calmette and Guerin) vaccine, a diphtheria toxoid vaccine, a diphtheria/tetanus/pertussis vaccine, a pertussis vaccine, a tetanus toxoid vaccine, a measles vaccine, a mumps vaccine, a rubella vaccine, a OPV (oral poliomyelitis vaccine) and *Mycobacterium vaccae*, or part thereof.

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22. A method according to claim 20 wherein said pharmaceutical composition and/or an immune modulator composition is co-administered with two or more such antigens or antigenic determinants.

20 23. A method according to claim 19 wherein said pharmaceutical composition and/or an immune modulator composition is co-administered with an antigen or antigenic determinant.

24. A method according to claim 23 wherein the antigen or antigenic determinant
25 is an antigen or antigenic determinant selected from one or more of a BCG (bacillus of Calmette and Guerin) vaccine, a diphtheria toxoid vaccine, a diphtheria/tetanus/pertussis vaccine, a pertussis vaccine, a tetanus toxoid vaccine, a measles vaccine, a mumps vaccine, a rubella vaccine, a OPV (oral poliomyelitis vaccine) and *Mycobacterium vaccae*, or part thereof.

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25. A method according to claim 23 wherein said pharmaceutical composition and/or an immune modulator composition is co-administered with two or more such antigens or antigenic determinants.
- 5 26. An immune modulator composition and/or pharmaceutical composition according to claim 13 wherein said composition comprises two or more such antigens or antigenic determinants.